

FIG. 1

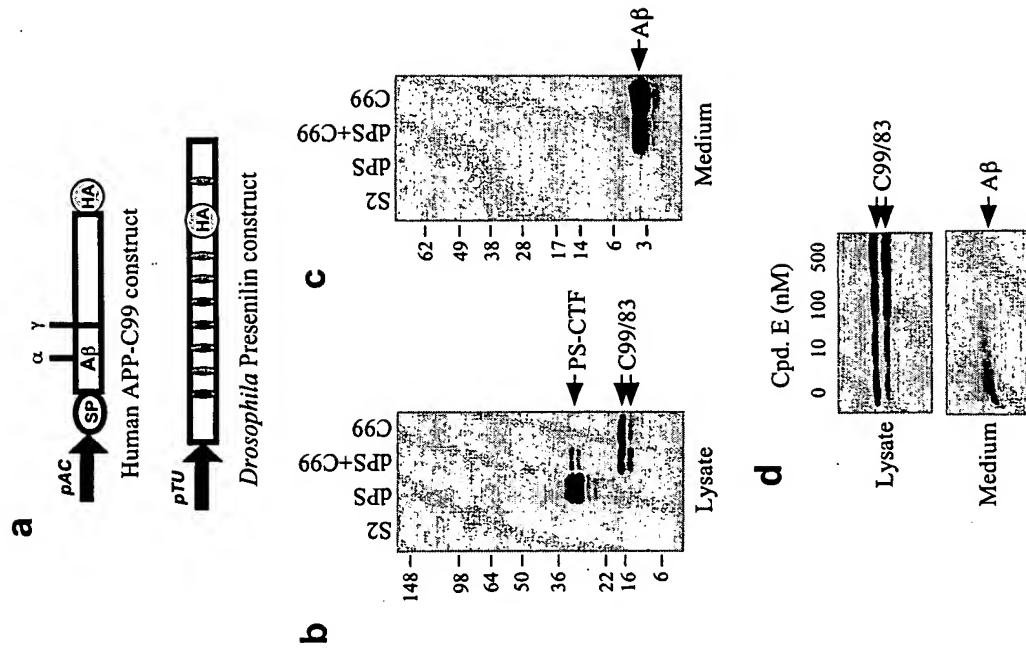


FIG. 2

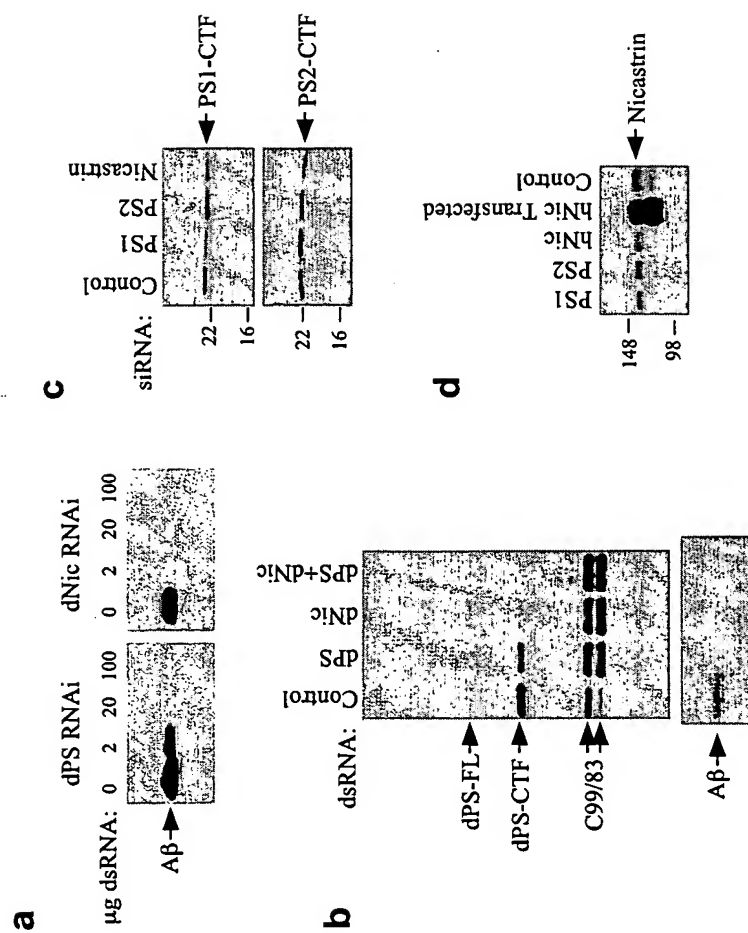


FIG. 3

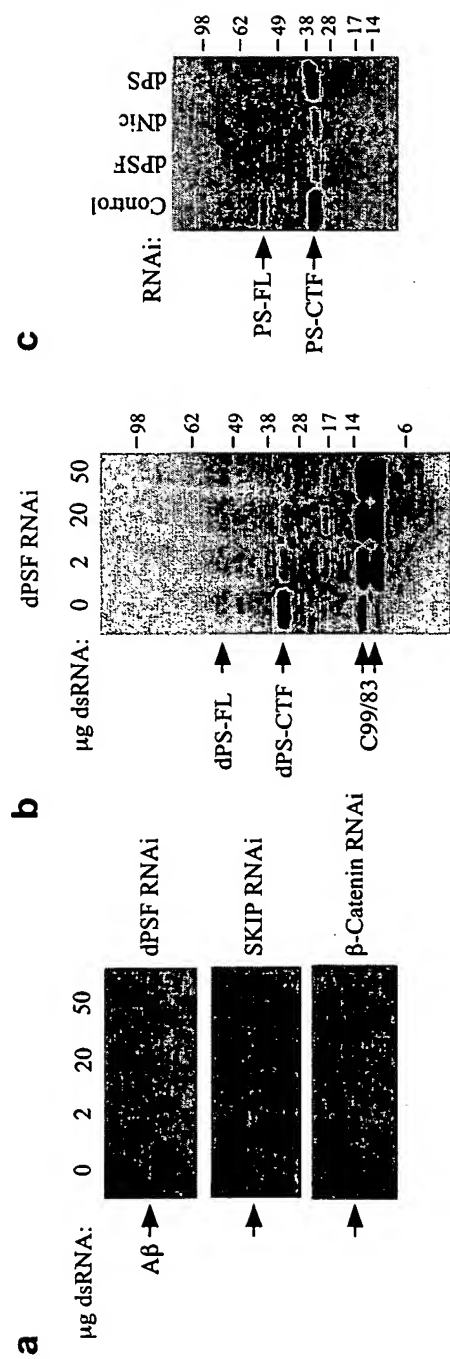


FIG. 4

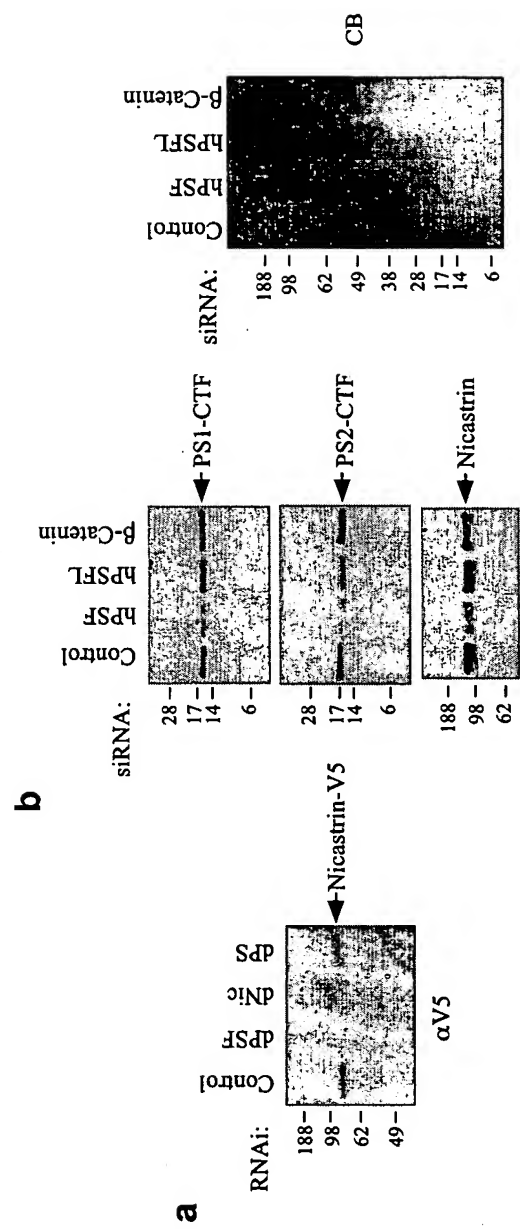


FIG. 5

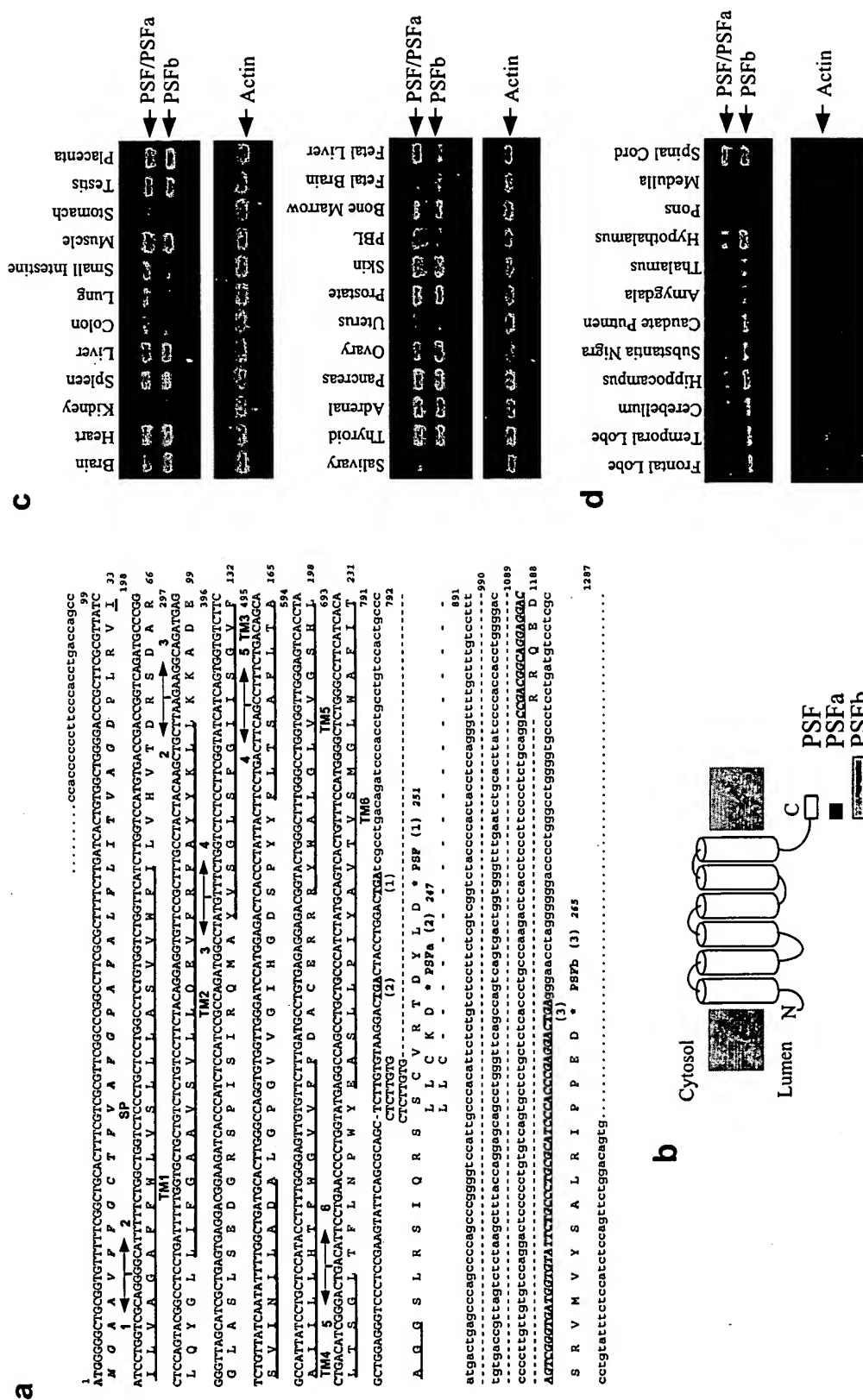
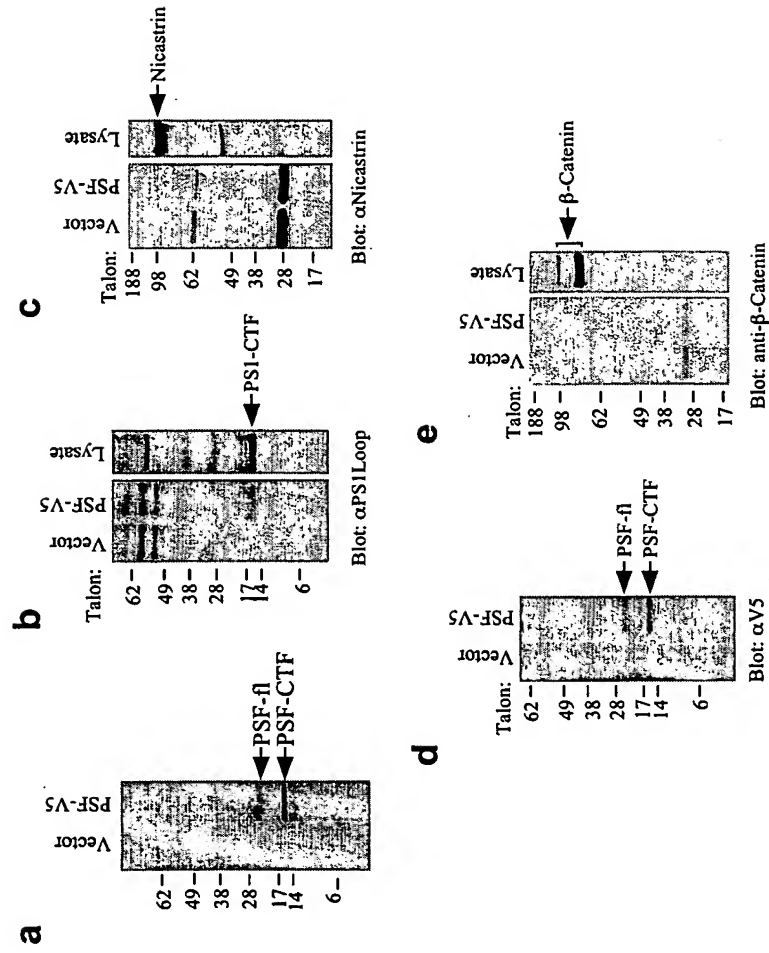


FIG. 6



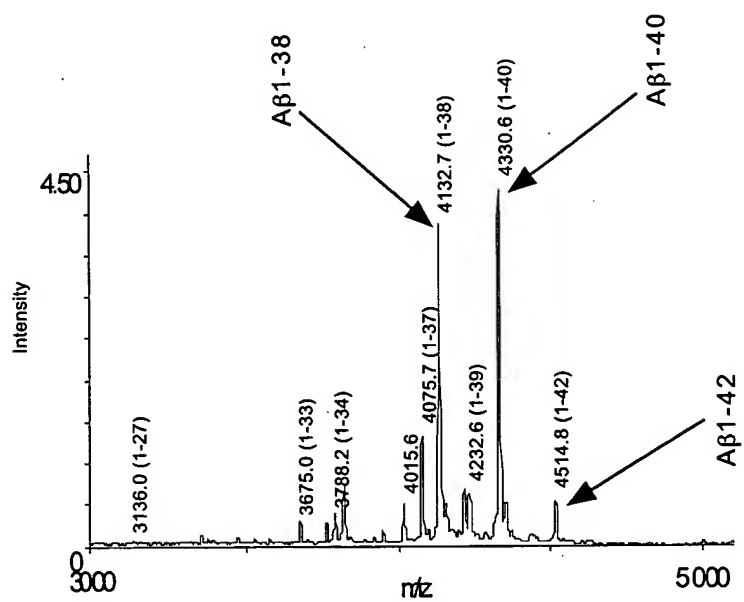


FIG. 7

CCCCTCCCATTGCTGTCCTGGTCAGGCCCCCACCCTTCCCACCTGACCAG
 CCATGGGGGCTGCGGTGTTTTTCGGCTGCACTTTCGTCGCGTTTCGGCCCGGCCTT
 CGCGCTTTTCTTGATCACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTC
 GCAGGGGCATTTTTCTGGCTGGTCTCCCTGCTCCTGGCCTCTGTGGTCTGGTTCA
 TCTTGGTCCATGTGACCGACCGGTCAGATGCCCGGCTCCAGTACGGCCTCCTGA
 TTTTGGTGTGCTGTCTCTGTCTTCTACAGGAGGTGTTCCGCTTTGCCTACTA
 CAAGCTGCTTAAGAAGGCAGATGAGGGGTAGCATCGCTGAGTGAGGACGGAA
 GATCACCCATCTCCATCCGCCAGATGGCCTATGTTTCTGGTCTCTCCTTCGGTAT
 CATCAGTGGTGTCTTCTCTGTTATCAATATTTGGCTGATGCACTTGGGCCAGGT
 GTGGTTGGGATCCATGGAGACTCACCTATTACTTCCCTGACTTCAGCCTTTCTGA
 CAGCAGCCATTATCCTGCTCCATACCTTTTGGGGAGTTGTGTTCTTTGATGCCTG
 TGAGAGGAGACGGTACTGGGCTTTGGGCCTGGTGGTTGGGAGTCACCTACTGAC
 ATCGGGACTGACATTCCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCATCTA
 TGCAGTCACTGTTTCCATGGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCT
 CCGAAGTATTCAGCGCAGCTCTTGTAAGGACTGACTACCTGGACTGATCGCC
 TGACAGATCCCACCTGCCTGTCCACTGCCCATGACTGAGCCCAGCCCCAGCCG
 GGGTCCATTGCCACATTCTCTGTCTCCTTCTCGTCGGTCTACCCCACTACCTCC
 AGGGTTTTGCTTTGTCCTTTTGTGACCGTTAGTCTCTAAGCTTTACCAGGAGCAG
 CCTGGGTTGAGCCAGTCACTGAGTGGTGGGTTTGAATCTGCACTTATCCCCACC
 ACCTGGGGACCCCTTGTTGTGTCCAGGACTCCCCCTGTGTGAGTGTCTGTCTCT
 CACCCTGCCCAAGACTCACCTCCCTTCCCTCTGCAGGCCGACGGCAGGAGGAC
 AGTCGGGTGATGGTGTATTCTGCCCTGCGCATCCACCCGAGGACTGAGGGAAC
 CTAGGGGGGACCCCTGGGCCTGGGGTGCCCTCCTGATGTCTCGCCCTGTATTT
 CTCCATCTCCAGTTCTGGACAGTGCAGGTTGCCAAGAAAAGGGACCTAGTTTAG
 CCATTGCCCTGGAGATGAAATTAATGGAGGCTCAAGGATAGATGAGCTCTGAG
 TTTCTCAGTACTCCCTCAAGACTGGACATCTTGGTCTTTTTTCTCAGGCCTGAGGG
 GGAACCATTTTTTGGTGTGATAAATAACCTAACTGCCTTTTTTTCTTTTTTGAGG
 TGGGGGGAGGGAGGAGGTATATTGGAACCTTCTAACCTCCTTGGGCTATATTT
 TCTCTCCTCGAGTTGCTCCTCATGGCTGGGCTCATTTTCGGTCCCTTTCTCCTTGGT
 CCCAGACCTTGGGGGAAAGGAAGGAAGTGCATGTTTGGGAACTGGCATTACTG
 GAACTAATGGTTTTAACCTCCTTAACCACCAGCATCCCTCCTCTCCCAAGGTG
 AAGTGGAGGGTGCTGTGGTGAGCTGGCCACTCCAGAGCTGCAGTGCCACTGGA
 GGAGTCAGACTACCATGACATCGTAGGGAAGGAGGGGAGATTTTTTTGTAGTTT
 TTAATTGGGGTGTGGGAGGGGCGGGGAGGTTTTCTATAAACTGTATCATTTTCT
 GCTGAGGGTGGAGTGTCCCATCCTTTTAATCAAGGTGATTGTGATTTTGAATAA
 TAAAAAGAATTTGTAAAAAA

FIG. 8a

MGA AVFFGCTF VAFGPAFALFLITVAGDPLRVII LVAGAFFWLVSLLLASV VWFILV
 HVTDRSDARLQYGLLIFGA AVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISI
 RQMAYVSGLSFGIISGVFSVINILADALGPGVVGIIHGDSPPYFLTSAFLTAAILLHTF
 WGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLW
 AFITAGGSLRSIQRSSCVRTDYLD

FIG. 8b

CCCCTCCCATTGCTGTCCTGGTCAGGCCCCACCCCCCTTCCCACCTGACCAG
CCATGGGGGCTGCGGTGTTTTTCGGCTGCACTTTCGTCGCGTTCGGCCCGGCCTT
CGCGCTTTTCTTGATCACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTC
GCAGGGGCATTTTTCTGGCTGGTCTCCCTGCTCCTGGCCTCTGTGGTCTGGTTCA
TCTTGGTCCATGTGACCGACCGGTCAGATGCCCGGCTCCAGTACGGCCTCCTGA
TTTTTGGTGTCTGTCTCTGTCTTCTACAGGAGGTGTTCCGCTTTGCCTACTA
CAAGCTGCTTAAGAAGGCAGATGAGGGGTAGCATCGCTGAGTGAGGACGGAA
GATCACCCATCTCCATCCGCCAGATGGCCTATGTTTCTGGTCTCTCCTTCGGTAT
CATCAGTGGTGTCTTCTCTGTTATCAATATTTTGGCTGATGCACTTGGGCCAGGT
GTGGTTGGGATCCATGGAGACTCACCTATTACTTCCTGACTTCAGCCTTTCTGA
CAGCAGCCATTATCCTGCTCCATACCTTTTGGGGAGTTGTGTTCTTTGATGCCTG
TGAGAGGAGACGGTACTGGGCTTTGGGCCTGGTGGTTGGGAGTCACCTACTGAC
ATCGGGACTGACATTCCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCATCTA
TGCAGTCACTGTTTCCATGGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCT
CCGAAGTATTCAGCGCAGCCTCTTGTGTAAGGACTGACTACCTGGACTGATCGC
CTGACAGATCCCACCTGCCTGTCCACTGCCCATGACTGAGCCCAGCCCCAGCCC
GGGTCCATTGCCCACATTCTCTGTCTCCTTCTCGTCGGTCTACCCCACTACCTCC
AGGGTTTTGCTTTGTCCTTTTGTGACCGTTAGTCTCTAAGCTTTACCAGGAGCAG
CCTGGGTTTACGCCAGTCAGTGAAGTGGTGGTGAATCTGCACTTATCCCCACC
ACCTGGGGACCCCCTTGTTGTGTCCAGGACTCCCCCTGTGTCAAGTGTCTGTCT
CACCTGCCCAAGACTCACCTCCCTTCCCCTCTGCAGGCCGACGGCAGGAGGAC
AGTCGGGTGATGGTGTATTCTGCCCTGCGCATCCACCCGAGGACTGAGGGAAC
CTAGGGGGGACCCCTGGGCCTGGGGTGCCCTCCTGATGTCCTCGCCCTGTATTT
CTCCATCTCCAGTTCTGGAC

FIG. 9a

MGAAVFFGCTFVAFGPAFALFLITVAGDPLRVIIIVAGAFFWLVSLLLASVWVILV
HVTDRSDARLQYGLLIFGAAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISI
RQMAYVSGLSFGIISGVFSVINILADALGPGVVGIIHGDSPPYFLTSAFLTAAILLHTF
WGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLW
AFITAGGSLRSIQRSLLCKD

FIG. 9b

CCCCTCCCATTTGCCTGTCCTGGTCAGGCCCCCACCCTTCCCACCTGACCAG
CCATGGGGGCTGCGGTGTTTTTCGGCTGCACTTTCGTCGCGTTTCGGCCCGGCCTT
CGCGCTTTTCTTGATCACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTC
GCAGGGGCATTTTTCTGGCTGGTCTCCCTGCTCCTGGCCTCTGTGGTCTGGTTCA
TCTTGGTCCATGTGACCGACCGGTCAGATGCCCCGGCTCCAGTACGGCCTCCTGA
TTTTTGGTGCTGCTGTCTCTGTCTTCTACAGGAGGTGTTCCGCTTTGCCTACTA
CAAGCTGCTTAAGAAGGCAGATGAGGGGTTAGCATCGCTGAGTGAGGACGGAA
GATCACCCATCTCCATCCGCCAGATGGCCTATGTTTCTGGTCTCTCCTTCGGTAT
CATCAGTGGTGTCTTCTCTGTTATCAATATTTTGGCTGATGCACTTGGGCCAGGT
GTGGTTGGGATCCATGGGAGACTCACCTATTACTTCCTGACTTCAGCCTTTCTGA
CAGCAGCCATTATCCTGCTCCATACCTTTTGGGGAGTTGTGTTCTTTGATGCCTG
TGAGAGGAGACGGTACTGGGCTTTGGGCCTGGTGGTTGGGAGTCACCTACTGAC
ATCGGGACTGACATTCCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCATCTA
TGCAGTCACTGTTTCCATGGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCT
CCGAAGTATTCAGCGCAGCCTCTTGTGCCGACGGCAGGAGGACAGTCGGGTGA
TGGTGTATTCTGCCCTGCGCATCCCACCCGAGGACTGAGGGAACCTAGGGGGG
ACCCTGGGCCTGGGGTGCCCTCCTGATGTCCTCGCCCTGTATTTCTCCATCTCC
AGTTCTGGACAGTG

FIG. 10a

MGAAVFFGCTFVAFGPALFLITVAGDPLRVILVAGAFFWLVSLLLASVWVILV
HVTDRSDARLQYGLLIFGAAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISI
RQMAYVSGLSFGIISGVFSVINLADALGPGVVGIIHGDSPIYFLTSAFLTAAILLHTF
WGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLW
AFITAGGSLRSIQRSLLCRRQEDSRVMVYSALRIPPED

FIG. 10b

TTTCCGCGGTGGCCATGACTGCGGCCGTGTTCTTCGGCTGCGCCTTCATTGCCTT
CGGGCCTGCGCTCGCCCTTTATGTCTTCACCATCGCCACCGAGCCGTTGCGTATC
ATCTTCCTCATCGCCGGAGCTTTCTTCTGGTTGGTGTCTCTACTGATTTCGTCCCT
TGTTTGGTTCATGGCAAGAGTCATTATTGACAACAAAGATGGACCAACACAGA
AATATCTGCTGATCTTTGGAGCGTTTGTCTCTGTCTATATCCGAGAAATGTTCCG
ATTTGCATATTATAAACTCTTAAAAAAGCCAGTGAAGGTTTGAAGAGTATAAA
CCCAGGTGAGACAGCACCCCTCTATGCGACTGCTGGCCTATGTTTCTGGCTTGGG
CTTTGGAATCATGAGTGGAGTATTTTCCTTTGTGAATACCCTATCTGACTCCTTG
GGCCAGGCACAGTGGGCATTTCATGGAGATTCTCCTCAATTCTTCCTTTATTCA
GCTTTCATGACGCTGGTCATTATCTTGCTGCATGTATTCTGGGGCATTGTATTTT
TTGATGGCTGTGAGAAGAAAAAGTGGGGCATCCTCCTTATCGTTCTCCTGACCC
ACCTGCTGGTGTGAGCCAGACCTTCATAAGTTCTTATTATGGAATAAACCTGG
CGTCAGCATTTATAATCCTGGTGTCTCATGGGCACCTGGGCATTCTTAGCTGCGG
GAGGCAGCTGCCGAAGCCTGAAACTCTGCCTGCTCTGCCAAGACAAGAACTTTC
TTCTTTACAACCAGCGCTCCAGATAACCTCAGGGAACCAGCACTTCCCAAACCG
CAGACTACATCTTTAGAGGAAGCACAACTGTGCCTTTTTCTGAAAATCCCTTTTT
CTGGTGGAAAAAAA

FIG. 11a

MTAAVFFGCAFIAGFPALALYVFTIATEPLRIIFLIAGAFFWLVSLLISSLVWFMARVI
IDNKDGPTQKYLLIFGAFVSVYIREMFRFAYYKLLKKASEGLKSINPGETAPSMRLL
AYVSGLGFGIMSGVFSFVNTLSDSLPGTVGIHGDS PQFFLYSAFMTLVILLHVFW
GIVFFDGCEKKKWGILLIVLLTHLLVSAQTFISSYYGINLASAFIILVLMGTWAFLLAA
GGSCRSLKLCLLCQDKNFLLYNQSR

FIG. 11b

CAGTAATAATACAAAGACAAGATGACGTTGCCCGAGTTCTTTGGCTGCACCTTC
ATCGCCTTCGGACCGCCCTTCGCCTTGTTTCGTCTTCACCATCGCCAATGATCCAG
TGCGGATCATCATTCTGATTGCGGCGGCATTCTTCTGGCTGCTTTCCCTGCTGAT
CTCTTCCCTGTGGTATGCCCTGATTCCGCTGAAGGAGTTCCTGGCATTGCGGTG
GTCTTCTCGGTGTGCTTCCAGGAAGCCTTCGGTACATCATCTACCGGATACTGC
GCAGCACGGAGCAGGGATTGCACGCCGTGGCGGAGGACACGCGAGTGACGGA
CAACAAGCACATCCTGGCCTATGTCTCCGGCTTGGGATTCGGCATTATATCCGG
GATGTTTGCACTGGTCAATGTGCTGGCTGATATGAGTGGTCCCGGCACCATGGG
CTTGAAGGGCGGAAGTGAAGTATTCTTCGTACCTCGGCTGCCCAGGCGTTGTC
GATTATCCTGCTGCACACCTTCTGGAGCGTTATTTTCTTCAACGCATTTCGACACA
AACAACTATATCCACATAGGCTATGTGGTTTTTCAGCCACCTGTTTCGTCTCCCTGA
TAACTCTGCTCAATGCCAATGAGCTTTACACGACCACTCTGCTGATAAACTACT
TGGTCACCATACTTACGGGAGTCTCGCCTTCGGGTGGCTGGAGGAACATCTC
GCAGTTTCAGAAAATTCATAACATGCCAGTAAACATACTCCTAGTATTAACCGC
CT

FIG. 12a

MTLPEFFGCTFLAFGPPFALFVFTIANDPVRHLLAAFFWLLSLLISSLWYALIPLKEF
LAFGVVFSVCFQEAERYIYRILRSTEQGLHAVAEDTRVTDNKHILAYVSGLGFGIIS
GMFALVNVLADMSGPGTMGLKGGTELFFVTSAAQALSILLHTFWSVIFNAFDTN
NYIHIGYVVFSLFLVSLITLLNANELYTTTLLINYLVTILTGVLAFRVAGGTSRSFRKF
ITCQ

FIG. 12b

ATGGGGGCTGCGGTGTTTTTCGGCTGCACTTTCGTGCGGTTTCGGCCCCGGCCTTCG
CGCTTTTCTTGATCACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTCGC
AGGGTGAGTAGAGGGCCCGGGAGACGCGGGAGAGCGTCGAAGAGAGAGGTGC
GGAAGGGGCTGGAGGAACTGGGGCAAGCCTGGGAGCCTGAATTGGGGACGAT
AAGTCGGAGGTGAAGTTTGGGCGGAGGTGAGGGGTGGGTCTGGGAGATTGT
CCTTTCCCGCAGTTGGTTTCCACCTTCCAAGGATCTCACAGATTCTCTATATT
CCTCCCAGCGACGTCAGAGAAGGCCCAAGGCCGAGACTCGTGAGGGGGCTGTG
CTGACCTAGGCAGGCCGAGTCAGGTGCCTTAGGGGAGGATCCAGGAACGGATA
CCTCGCCCTTCCGTGCTCGCACACTCTGGCTGTCATCGCTCTGAAGACTCTTTAA
TTAGATTTCTCCCCTTTCCAGTGCCTTCACTTTTCTACAGATGAGTCTCTTGGTG
GAGACAGTTACCCTACCTGGTCCATGTCTCCCTAACCATCCGGAAGGCTAACTT
CCACTTTTCAAGCAGCTTTGGCTGGTTTCCCTCCTTGATTCTCTGGCTCCCACT
ACTATTGCTTGCTCACTGCCCCGTGTCTTTTCTCAGGGCATTCTTCTGGCTGGTCT
CCCTGCTCCTGGCCTCTGTGGTCTGGTTCATCTTGGTCCATGTGACCGACCGGTC
AGATGCCCCGGCTCCAGTACGGCCTCCTGATTTTTTGGTGCTGCTGTCTGTCTT
CTACAGGAGGTGTTCCGCTTTGCCTACTACAAGCTGCTTAAGTAAGAAGATGGA
GTGGTCTGGAGGGGAGAGGGGCAAAGGACTGCACTATGGGAAGTGGGGCAGC
CCCTGGGTGCTGGTTTGAAGAGGAGGCACTAAGGGAGGACATTAGAGGGAAA
GGAGCATCCCTGCCCTCCCTCATGTTTCCCTACCCACCCACCCAGGAAGG
CAGATGAGGGGTAGCATCGCTGAGTGAGGACGGAAGATCACCCATCTCCATC
CGCCAGATGGCCTATGGTGAGCCAAGGGAGAGGGACTGGAGGAGGGAGTTGG
ACAGCCCCCTCCTCTAGGGAAGTCTCTAAATATCCACATGTTCTAAGTGGCTTCT
TACTTTCTTCATCCGTCACCTTCCAAAGAAAGTTGGTCTGGAGGGAGAGTAGAT
GTGAAAGAATTGTAACCGGGAATGGGGAGGGGTGAGTGGTGAACAGGCAATAG
TGTGATCTCTGACATTGATGAGATCCTCCCTTCCCCCAGTTTCTGGTCTCTCCTT
CGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATTTGGCTGATGCACTTGGG
CCAGGTGTGGTTGGGATCCATGGAGACTCACCTATTACTTCCTGACTTCAGGT
AAGATCCACCTTCTATCTAGCCTTTACCCCCCATCCATCCTTGTCCCTGATCTGA
TTTATTGGCCTTCCCTGAGAGACTTCTTTGGCTCAACATCTCAGGAGCCTGGGA
GAAGATCAGGGATGTATCTCCTCCCCATCTCCCTCCCTGCAGCCTTTCTGACAGC
AGCCATTATCCTGCTCCATACCTTTTGGGGAGTTGTGTTCTTTGATGCCTGTGAG
AGGAGACGGTACTGGGCTTTGGGCCTGGTGGTTGGGAGTCACCTACTGACATCG
GGACTGGTGAGTTGGAGACAGGGGCCTGAGTTAGGGAGAAAAGCATTTAATGG
TGAGTGGGATGTGGGGGAAAGGGTATCCTCACTTCTTAACATTTTAACTTACC
TGGGAGGAGGAGGAAAGGTGAGTCTTTCAAGGTCTCTCACCTCAGCATCATTTT
TATCACCTGCTCTGGGGAGGAGGTTGAAAGGATTAGTCAAACCTGTAATGCAGA
GGGCCTGAGGTGAGCAGGAGCGGCAGAAACCTTTGAGTTTCTGAGGAGCTGAA
AATCAAAAGTCCCCTTAACCACAAGATGTTGGTGCTCTGAAGGGAAAGACTGG
AGAATTTGAGAGAGATATCTGGGAGTCAGAAAGGTACAGAGAGAATATGGGGA
TTAGGTCGAGGGAGAATCTAATCTCTTCTACTCTTACCCTCCTTCTAGACAT
TCCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCATCTATGCAGTCACTGTTT
CATGGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCTCCGAAGTATTCAGCG
CAGCCTCTTGTAAGGACTGACTACCTGGACTG

FIG. 13

TTCCCTCCCTTCCCCAGCTGCCCAGTCATGGGGGCTGCTGTGTTTTTCGGATGCA
CCTTCGTCGCGTTCGGCCCAGCCTTCTCCCTTTTCCTGATCACTGTAGCTGGAGA
CCCACTTCGGGTTATCATCCTGGTGGCGGGAGCCTTTTTCTGGCTGGTCTCCCTG
CTCTTGGCTTCTGTGGTCTGGTTCATCTTGGTCCATGTGACAGACCGATCAGATG
CACGGCTCCAGTATGGCCTCCTGATTTTTTGGTGCTGCTGTCTGTCTCTTCTACA
GGAAGTGTTCCGTTTTGCTTACTACAAGCTCCTTAAGAAGGCAGATGAGGGCTT
AGCATCACTGAGTGAGGACGGAAGATCACCCATCTCCATCCGACAGATGGCCT
ATGTTTCTGGTCTGTCCTTCGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATT
TTGGCTGATGCACTTGGGCCAGGTGTGGTTGGGATCCATGGAGACTCACCCCTAT
TACTTCCTGACTTCAGCCTTTCTGACAGCAGCCATTATCCTGCTCCACACCTTTT
GGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTACTGGGCTTTGGGCC
TGGTAGTTGGGAGTCACCTTCTGACATCGGGACTGACATTCCTGAACCCCTGGT
ATGAGGCTAGCCTGCTGCCCATCTATGCAGTCACCGTTTCCATGGGGCTCTGGG
CGTTCATCACAGCCGGAGGCTCCCTCCGAAGTATCCAGCGCAGCCTTTCTGTGA
AGGACTGACTACCTGGACTGATCGCCCGACAGATCCCATCTGCCTATCCACTGC
CCATGACTGAACCCAGCCCCAGCCCCGGGTCCATTGCCCTCATCCTCCGTCTCCTC
GCTGATGTGCCCCGCTTCCTTCCGGGTTTGGCGTTGTCCATTTGTGACCTGTAGT
CTCTAAGCTTTCTCAGGAGCAGCCTGGGTGCAGCCAGTCAGGGACTGGTGGGTT
TGAATCTGCATCTCTCCCCACCACCTGGGGACCCCTTGTGTCCAGGTCTCCCC
ATGTGTCAGTGCTCCACCCTCACCTGCCCCATGACTACCCCGCTTCCCCTCTGC
AGGCCGCCGGCAGGAGGACAGTCGGGTGATGGTGTACTCTGCCCTGCGCATCC
CACCCGAGGACTGAGGGAACATGGGGGGGCCCTGGGCCTGGGGTGCCCTCCC
GAT

FIG. 14a

MGAAVFFGCTFVAFGPAFSLFLITVAGDPLRVILVAGAFFWLVSLLLASVWVWILV
HVTDRSDARLQYGLLIFGAAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISI
RQMAYVSGLSFGIISGVFSVINILADALPGVVGIIHGDSPIYFLTSAFLTAAILLHTF
WGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLW
AFITAGGSLRSIQRSLSCKD

FIG. 14b

TTCCCTCCCTTCCCCAGCTGCCCAGTCATGGGGGCTGCTGTGTTTTTCGGATGCA
CCTTCGTCGCGTTCGGCCCAGCCTTCTCCCTTTTCCTGATCACTGTAGCTGGAGA
CCCACTTCGGGTTATCATCCTGGTGGCGGGAGCCTTTTTCTGGCTGGTCTCCCTG
CTCTTGGCTTCTGTGGTCTGGTTCATCTTGGTCCATGTGACAGACCGATCAGATG
CACGGCTCCAGTATGGCCTCCTGATTTTTGGTGCTGCTGTCTCTGTCTTCTACA
GGAAGTGTTCCGTTTTGCTTACTACAAGCTCCTTAAGAAGGCAGATGAGGGCTT
AGCATCACTGAGTGAGGACGGAAGATCACCCATCTCCATCCGACAGATGGCCT
ATGTTTCTGGTCTGTCCTTCGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATT
TTGGCTGATGCACTTGGGCCAGGTGTGGTTGGGATCCATGGAGACTCACCCAT
TACTTCCTGACTTCAGCCTTTCTGACAGCAGCCATTATCCTGCTCCACACCTTT
GGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTACTGGGCTTTGGGCC
TGGTAGTTGGGAGTCACCTTCTGACATCGGGACTGACATTCTGAACCCCTGGT
ATGAGGCTAGCCTGCTGCCCATCTATGCAGTCACCGTTTCCATGGGGCTCTGGG
CGTTCATCACAGCCGGAGGCTCCCTCCGAAGTATCCAGCGCAGCCTTTCGTGCC
GCCGGCAGGAGGACAGTCGGGTGATGGTGTACTCTGCCCTGCGCATCCCACCCG
AGGACTGAGGGAACATGGGGGGGCCCTGGGCCTGGGGTGCCCTCCCGAT

FIG. 15a

MGAAVFFGCTFVAFGPAFSLFLITVAGDPLRVILVAGAFFWLVSLLLASVWVILV
HVTDRSDARLQYGLLIFGAAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISI
RQMAYVSGLSFGIISGVFSVINILADALGPGVVGIIHGDSPIYYFLTSAFLTAAIILLHTF
WGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLW
AFITAGGSLRSIQRSLSRRQEDSRVMVYSALRIPPED

FIG. 15b

MTLPVFFGCAFIAGPAFALYLFTIATDPLRVIFLIAGAFFWLVSLLLSSMFWFLVRVI
TNNRDESVQNYLLIFGALLSVCIQELFRLAYYKLLKKASEGLKSINPEEDIAPSMRLL
AYVSGLGFGIMSGVFSFVNTLSNSLGPGTVGIHGDSPQFFLNSAFMTLVVIMLHVF
WGVVFFDGCEKNKWYTLLTVLLTHLVVSTQTFLSPYYEVNLVTAYIIMVLMGIWA
FYVAGGSCRSLKFCLLCQDKDFLLYNQSR

FIG. 16

GGCCGGCTGCCTTGCCCTTTCGAAAGTCAGTTGCGTGCGAGCCGCGAGCGCGAGA
TCATCAAACCTGAGAAAGTCGGACTGCGACTCGAAACTGAAATTGAAACTGAAA
GAGAGAAATATTCAAATTGTCTGTGTGTGGGTGCAAGCAGAGAATATATATCT
CAAGAATATCTGAATACAAGCTCCTGGATTACGAGCAGCAAACTAAGTTACC
AATGTGCGAGCCGAAAAAAGCGAGTGAAAAACGTGCGAATATGCCAACTAACT
AAAGACATTTGGATTACAAGAAACCCACGCATTTTGGATTATAAACATTGCGAC
AGGCAGAAAAACCTAAGAATTTCTTCAACGGCGCCAGCATGGAGAACCCAACG
CAGAATGTAAACGAAACCAAGGTGGATTGTTGGGCCAGGAGAAGGAGAAGGAGG
CGTCGCAGGAGGAGGAGCATGCCACCGCCGTCAAGGAGACCATCATTGACATT
CCCGCCGCGTGCTCCACTTCCTCCAACCTCCTCGTCGTACGACACCGATTGACGC
ACGGCGAGCAGCACCTGCTGCACCCGCCAAGGCGAGCACATCTACATGCAACG
CGAGGCCATCCCGGCCACGCCACTTCCGGAGTCGGAGGATATCGGCCTGCTGA
AGTACGTCCACCGCCAGCACTGGCCCTGGTTCATCCTAGTGATCTCCATCATTG
AGATTGCCATCTTCGCCTACGACCGCTACACAATGCCCCGCCAGAATTTTCGGGC
TACCCGTTCCGATTCCGTCGGATTTCGGTGCTGGTCTATCGGCCGGACCGGCGTC
TGCAGGTGTGGCGCTTCTTTAGCTACATGTTCTGACGCCAACTGGTTCCACCT
GGGCTTCAATATCGTCATCCAGCTGTTCTTCGGCATTCCCCCTGGAGGTGATGCA
CGGCACGGCCAGGATCGGCGTGATCTACATGGCGGGCGTTTTTGCCGGATCCCT
GGGCACCAGTGTCTGTCGACTCGGAGGTCTTCCTGGTGGGCGCCAGCGGTGGCGT
CTATGCCCTGTTGGCCGCACATCTGGCCAACATCACATTGAACTATGCGCACAT
GAAGAGCGCATCCACGCAACTCGGATCAGTTGTCATCTTTGTCTCCTGCGATCT
GGGCTATGCTCTCTACACCCAATACTTCGATGGAAGCGCCTTCGCCAAGGGTCC
CCAGGTGTCTGATATTGCCACCTGACGGGAGCCCTGGCAGGACTAACGATCG
GCTTCCTGGTGCTGAAGAACTTCGGTCATCGGGAGTACGAGCAGCTCATCTGGT
GGCTAGCGTTGGGCGTCTACTGTGCCTTCACCGTCTTCGCCATCGTTTCAACCT
GATCAACACGGTGACCGCCCAGCTGATGGAGGAGCAGGGTGAGGTGATTACCC
AGCATCTGTTGCACGACCTGGGAGTGTCTAAGTGTGAGGTTCCGAGTCGTCAG
CATGCTCGCAGGGATTTCGGAATCTGCTTGAGCTTCAGGAGAGATCGAGAGACA
GAGAGTTGGTGGAAGAAAGTTCACTCAACGATTTAGTTCAAACTAATTC
GATATTCGTTTGGCTTTTGCTTTTCGTTAGCATTATCTCGTTATCGTTACCGTTTG
CAGTTAAACGTTTCAGTTGCGAAACATAGTACACAACTCATAAAAAAAAAA
CAAATCAAGAGAAATACACTGGACAAAAAAGAGCGAGGAGTGAGGAGAAC
ATAAACCGAAGCCGAAACGTGTAAACAAATGTTGTGATAGAACCAAAGACTGA
ATTTATTTTCGCGTGTAACCAAGTAAAAATCAAGAGGAAATCAAAGAGGA
GAAACAGAACTAATCGCCTCTCGCTATGATTTAAATGAACCAATTATCCATGT
TTTCAATTAATGGTTTGTCTGTTTCTTAAATTATGTATTTATTGGCCGCAATTAC
TACGAATGAATCGAATCGAAGCATCAGCAAACTGTATCAAATTGTTTATACATC
CATAAGCATAATGTGCTCCGAATTGTAGGATTAGTGTTATAATTTATATATTT
AGGTATAACTAGCCCTCCTAACAAATTGTTTCAAATTGTAAATACTATTAAGTC
GCACACTAGTCAAACAACAACAACAGCAACAGCAAAAAACAACAAAAATGTAT
GGAAAACCACAGCAAAGAACCATTCAATTCAGATCAATTAAGCAAATCGAGTT
AAATTAATTAATTAATACTAAAGTCACTTAATGCGTTACAAAATCGAGCAAAT
ATTTATCGTAATCCCTACACACACACACACACTCGAAAGTATTACTAATT
ATATTTATTTATGGTAGGGCAGCGAGGGTTTATTAATTCGTCAATTGAGCGAAC
TATTTATTTATTTATTTATTTAATAATTTAGTGAAATTCACACAAACAAGCACGA
AAAAACAACAACAACAAGAGAGAGAAGAAACAAACCAATTCAACTGTAA
AATATCCAATTGAAAAATACACACGAAAAGCCAAAGAAAATAAAAAATCAAA
ACATTTCAAGAATACAACAGTAATAACAAAATACAAAAA

FIG. 17a

MENPTQNVNETKVDLGQEKEKEASQEEEHATAVKETIIDIPAACTSSNSSSYDTDC
STASSTCCTRQGEHIYMQREAIPTTLPESEDIGLLKYVHRQHWPWFILVISIIEIAIFA
YDRYTMPAQNFGLPVPIPSDSVLVYRPDRRLQVWRFFSYMFLHANWFHLGFNIVIQ
LFFGIPLEVMHGTARIGVIYMAGVFAGSLGTSVVDSEVFLVGASGGVYALLAAHLA
NITLNYAHMKSASTQLGSVVIFVSCDLGYALYTQYFDGSAFAKGPQVSYIAHLTGA
LAGLTIGFLVLKNFGHREYEQLIWWLALGVYCAFTVFAIVFNLINTVTAQLMEEQG
EVITQHLLHDLGVS

FIG. 17b

CCAGAAAGCAAAATAGAAACAAATTTTCCATATTTTCATGCTAAATTGGCACAGA
TCCGTACTACTATGCTCATGAGTCGAGCGCTTTGCCGGAGCTGGCTACCCCAGG
TGGCCCGCAGATGTCATGCTAATGTGAATGTGCCAATCCTGCGGATAAACTCTG
GTCATCCGGCGGCGAGGTCATGTCGGCAGATTACAGCAACCGAAAACAGAGC
AGCAACCTGAAGCCGACGACTGGGGAGCCTGCGGCAGCGGAGCAGAACACCCC
GGTGCCGGTGAACAATGTGATCAAGGCGGTGGCCTTCACGGGAGCATTACGG
TCGGCTGCTTTGCGGGTGCCACCATCCTGGAGTACGAGAACACACGTAGCCTAA
TCCTAGAAAAGGCTCGCCAGGCGAGATTCGGTTGGTGGCAGAGTCGTTTCGCTGG
CGGACAGGGATTACTGGACACAGATCAAACAAGACATCCGGCGGCACTGGGAC
TCACTGACACCCGGCGACAAGATGTTTGCTCCTATCTTACTCTGCAATTTGGTGG
CCTTCGCCATGTGGCGGGTGCCCGCTCTGAAATCCACAATGATTACCTACTTCA
CATCCAATCCAGCGGCGAAAGTCGTCTGCTGGCCCATGTTCTGTCCACATTCA
GCCATTACTCGGCTATGCACCTTTTCGCCAATATGTACGTGATGCACAGCTTTGC
CAACGCTGCGGCTGTATCGTTGGGTAAAGAGCAATTCTTAGCGGTCTACCTCAG
CGCCGGCGTCTTCTCCAGTCTGATGAGCGTGCTCTACAAGGCGGCCACGAGTCA
GGCGGGGATGTCCCTGGGTGCGTCTGGAGCTATAATGACACTGCTGGCCTATGT
ATGCACCCAGTATCCGGACACACAACCTTAGCATTCTCTTTCTACCCGCGTTGAC
ATTCTCCGCTGGAGCTGGTATTAAAGTGCTAATGGGCATCGACTTTGCTGGCGT
CGTGATGGGCTGGAAGTTCTTCGATCACGCAGCGCATTGCGCGGCCATGTT
TGGCATCTTTTGGGCCACGTATGGGGCACAGATATGGGCAAAGCGCATTGGTCT
ACTGAATTACTACCATGACCTGCGCCGGACGAAGCAGAAATAG

FIG. 18a

MLMSRALCRSWLPQVARRCHANVNVPILRINSHPAARSCRQIHSNRKQSSNLKPT
TGEPAAAEQNTPVPVNNVIKAVAFTGAFTVGCFAATILEYENTRSLILEKARQARF
GWWQSRSLADRDYWTQIKQDIRRHWDLSLTPGDKMFAPILLCNLVAFAMWRVPAL
KSTMITYFTSNPAAKVVCWPMFLSTFSHYSAMHLFANMYVMHSFANAAVSLGK
EQFLAVYLSAGVFSSLMSVLYKAATSQAGMSLGASGAIMTLAYVCTQYPDTQLSI
LFLPALTFSAAGIKVLMGIDFAGVVMGWKFFDHAHLGGAMFGIFWATYGAQI
WAKRIGLLNYYHDLRRTKQK

FIG. 18b

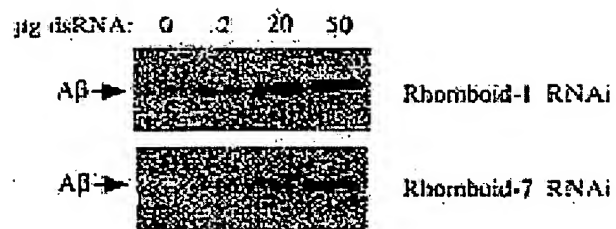


FIG. 19